

MC4EIC

CTEQ-EICUG workshop on MC event simulation for the EIC

Welcome

Elke Aschenauer (BNL), Markus Diefenthaler (Jlab), Stefan Hoeche (FNAL), Pavel Nadolsky (SMU)

Abhay Deshpande (CFNS)



It is great to see all of you – in such a large
numbers – engaging in this workshop

This means you & your loved-ones are safe and
sound even in these challenging times

We all hope for normalcy soon and to see you
in-person at future meeting



Center for Frontiers in Nuclear Science (CFNS)

<https://www.stonybrook.edu/cfns>

Setup jointly by Brookhaven National Laboratory and Stony Brook University in 2017 with generous support from the Simons Foundation and NY State to

- promote EIC and EIC science
- support young scientists (especially postdoctoral fellows, students & junior faculty) working on EIC
- Broadly support activities of EIC enthusiasts towards the above goals

The Center Activities:

- a series of annual workshop, postdoctoral fellow & visitors program
- a biweekly seminar program
- diversity is a core value. Initiating an Under-Represented Minority (URM) support for students/post docs: The Edward Bouchet Initiative
- sponsors local and international workshops associated with EIC
- supports EIC User Group activities ([EICUG.ORG](https://www.eicug.org))



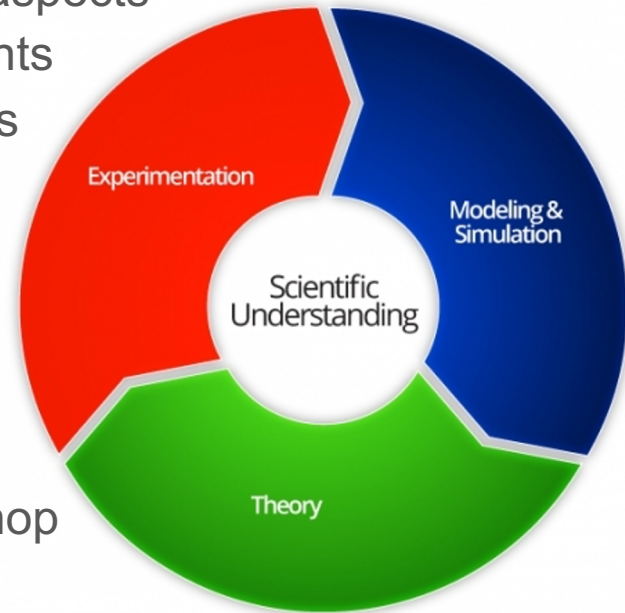
Goals of the workshop series

- Establish a foundation for in-depth look at event generators currently used or developed for the EIC
 - Understand precision level needed in these event generators in order to match experimental analysis requirements
 - Highlight areas needing exchange between theory and experiment, and establish benchmarks for MC development
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- Questions from this kick-off workshop will be addressed at subsequent workshops in the series, jointly organized with the effort on “[MCEG for future ep and eA facilities](#)”
 - Next workshop tentatively to be held in Spring 2022
Will include in-depth discussions of existing MCs for the EIC



Goals of the workshop series

- Many physics questions & technical MC aspects are similar across facilities and experiments
- MC event generator development benefits from a coherent, cross-cutting approach
- We have included ample time for questions and discussion in the agenda
- Live notes to be taken during the workshop
 - Will form the basis for further discussion
 - Be condensed into a workshop summary
 - Become a blueprint for a contribution to Snowmass



Thank you for
Your interest, participation & anticipated
contributions
toward the success of this workshop

I want to personally thank the four conveners: Elke, Markus, Pavel and Stefan
And we look forward to working together with CTEQ on such joint activities

